

**Contractor Statement of Work for Meteorological Rocket and Small Targets
Support for White Sands Missile Range (WSMR) Theater Missile Defense (TMD)
Targets Division.**

- 1.) The contractor will provide operations and maintenance, engineering support, and launch services for meteorological rocket systems and small targets based on the Super Loki series of rockets.
- 2.) **Operations and Maintenance:** The contractor will perform the necessary actions to operate and maintain in readiness the equipment necessary to conduct Super Loki launches, specifically the launcher, launch rails, rocket motors, darts, and other equipment directly necessary to launch the Super Loki rocket. This task may typically include:
 - a.) pre-mission survey of the launcher and launch site to ascertain launcher pointing accuracy
 - b.) mechanical inspection, functional inspection, and lubrication of the launcher and launch rails
 - c.) pre-mission inspection of rocket motors and darts to ensure flight-ready condition
 - d.) recommendations to the US Government for any repairs or modifications necessary to ensure safe operation of the launcher, launch rails, rockets, or other related hardware
 - e.) assistance with the preparation for off-range missions
- 3.) **Engineering support:** The contractor will perform engineering design, analysis, modifications, and fabrication of hardware components for the Super Loki rocket to meet specific WSMR requirements, and to ensure the long-term reliability and safety of the Super Loki. This task may typically include:
 - a.) design and fabrication of dart assemblies and payloads that may include met balloons, Theater Ballistic Missile (TBM) simulators, etc
 - b.) modifications to / refurbishment of existing Super Loki rocket motors and darts
 - c.) monitoring of flight reliability and compiling of statistical data
 - d.) recommendations to the US Government for specialized engineering testing to ascertain the performance of new, existing, or modified Super Loki components
- 4.) **Launch services:** The contractor will perform the functions necessary to safely prepare, load and launch the Super Loki rocket and its variants. Tasks may typically include:
 - a.) aerodynamic modeling, trajectory prediction, and wind-weighting calculations for WSMR flight safety
 - b.) the provision of environmental and hazardous materials information for environmental impact and safety analysis
 - c.) on-site handling of the rockets, including preparation for flight, launcher loading, and firing
 - d.) the ability to conduct launches at any hour, day or night
 - e.) the review of available flight data to provide information required by the customer, ascertain rocket performance, and identify any anomalies
 - f.) provide post test data
- 5.) The US Government will provide the rocket launch site and supporting range services, typically including radar support, communication, meteorological support, explosives transportation, and roadblocks. Additionally, the US Government may provide as Government Furnished Equipment (GFE) the launcher, launch rails, rocket

motors and other vehicle hardware when its the most efficient and cost-effective option to do so.

- 6.) Taskings may be for both CONUS and OCONUS firing locations.
- 7.) Security clearances for contractor personnel will be required for access to and hand-carry of classified information up to and including the SECRET level.
- 8.) Each mission or mission series will be tasked to the contractor by WSMR, and the contractor will provide to WSMR an estimate of the contractor's ability to meet the proposed time schedule and a cost estimate to perform the tasking.